***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW31/HW31: HL Congruence

**Geometry**

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| **OBJECTIVE: You will be able to determine when and how to use the hypotenuse-leg congruence theorem to prove that two triangles are congruent.** | | | |
|  | | | Criteria for HL Congruence: |
| Example: Do triangle IKJ and triangle KJH meet the Hypotenuse-leg criteria?  Given | ../../../Desktop/Screen%20Shot%202015-11-27%20at%2012.09.25%20PM.pngYou Try! Do the two triangles meet the hypotenuse-leg criteria? Explain. | ../../../Desktop/Screen%20Shot%202015-11-27%20at%2012.09.28%20PM.pngYou Try! Do the two triangles meet the hypotenuse-leg criteria? Explain. | |

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| Criteria for Success: Did you…   * Annotate given information * Write congruency statements for given information and information determined by prior knowledge (how/evidence) * State a claim. (what/claim) * If your claim is that they are congruent, did you use a congruence theorem to support your claim? (why/reasoning) |

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| Directions:  Pt I: Determine if the triangles are congruent. If so, choose which theorem/postulate you would use to prove they are congruent.  Pt. II: \*\*COMPLETE IN YOUR NOTEBOOK\*\* - Choose 5 of the 8 problems below where you claim the triangles are congruent. For each of the 4 you chose, write out a proof (with at least 2 complete sentences) to show that the triangles are or are not congruent. Check your answer with the criteria for success below. | |
| 5. | 6. |
| **../../../../../Desktop/Screen%20Shot%202015-11-28%20at%2011.29.09%20AM**7. | 8. |
| 9. | 10. |
| ../../../../../Desktop/Screen%20Shot%202015-11-28%20at%2011.30.50%20AM7) | 8) |
| C:\Users\kramos\Desktop\congruent_triangles_MULTIPLE.PNG9) | C:\Users\kramos\Desktop\congruent_triangles_MULTIPLE2.PNG10) |